

Sheila made a scale drawing of a room. The actual room has a width of 16 feet and a length of 24 feet. Her drawing has a length of 3 inches. What is the width, in inches, of the scale drawing of the room?

Record your answer and fill in the bubbles on the grid provided. Be sure to use the correct place value.

				.		
0	0	0	0		0	0
1	1	1	1		1	1
2	2	2	2		2	2
3	3	3	3		3	3
4	4	4	4		4	4
5	5	5	5		5	5
6	6	6	6		6	6
7	7	7	7		7	7
8	8	8	8		8	8
9	9	9	9		9	9

R. Rubin's TAKS-like problems for Grade 8 Mathematics
3rd Nine Weeks – Geometry and Measurement

Mr. Dominguez is considering renting an office that has 325 square feet of space. The rent is \$1300 per month. A larger office in the same building is available for \$2,100 per month at the same rate per square foot as the smaller office. What is the area of the larger office?

F 525 ft^2

G $1,625 \text{ ft}^2$

H $3,400 \text{ ft}^2$

J 840 ft^2

Check your answer!
Is it reasonable?
Does it make sense?



R. Rubin's TAKS-like problems for Grade 8 Mathematics
3rd Nine Weeks – Geometry and Measurement

Bobby saved \$32 when he purchased a jacket at a clearance sale. If the sale price was 40% off the regular price, what was the regular price of the jacket?

A \$ 48

B \$ 72

C \$ 80

D \$ 128

Re-read the problem and then look at your answer. Does your answer make sense?



R. Rubin's TAKS-like problems for Grade 8 Mathematics
3rd Nine Weeks – Geometry and Measurement

Juanita can read an average of 18 pages during a 30-minute reading period at school. At this rate, approximately how long will it take her to read a 380-page book?

A 11 h

B 21 h

C 23 h

D 42 h

Hmmm... Can I eliminate any of the answer choices?



R. Rubin's TAKS-like problems for Grade 8 Mathematics
3rd Nine Weeks – Geometry and Measurement

To make a certain shade of orange paint, Calvin must add 20 ounces of yellow paint to every 50 ounces of red paint. If he uses 200 ounces of red paint, which proportion can he use to find x , the number of ounces of yellow paint he should add to get the shade of orange he wants?

A $\frac{20}{50} = \frac{x}{200}$

B $\frac{30}{20} = \frac{x}{200}$

C $\frac{20}{x} = \frac{200}{30}$

D $\frac{50}{x} = \frac{200}{20}$

This one looks difficult because it's so long!
Don't let that fool you. Set up the proportion like you learned to do in class!



R. Rubin's TAKS-like problems for Grade 8 Mathematics
3rd Nine Weeks – Geometry and Measurement

Tim ran 150 meters in 25 seconds, and Evan ran 90 meters in 15 seconds. Based on these rates, which statement is true?

F Tim's average speed was 4 meters per second faster than Evan's average speed.

G Tim's average speed was 2.4 meters per second faster than Evan's average speed.

H Tim's average speed was 2 meters per second faster than Evan's average speed.

J Tim's average speed was equal to Evan's average speed.

Talk to your neighbor about *how* you selected your answer!



R. Rubin's TAKS-like problems for Grade 8 Mathematics
3rd Nine Weeks – Geometry and Measurement

The Wright Pen Company sells 3-pen packages for \$1.50. Which company sells pens for the same price per pen?



F Jones Pen Company
4-pen packages for \$2.50

G Cavazos Pen Company
5-pen packages for \$3.00

H Smother Pen Company
7-pen packages for \$3.50

J Nottingham Pen Company
9-pen packages for \$5.00

R. Rubin's TAKS-like problems for Grade 8 Mathematics
3rd Nine Weeks – Geometry and Measurement

Mrs. McIntosh wants to purchase some apples. She compared prices from several different on-line grocers. Which grocer's price table is based on a constant unit price?

Groceries 2 U

A

Number of Apples	Total Cost
10	\$2.00
20	\$3.50
30	\$5.50
40	\$7.00

The Market

C

Number of Apples	Total Cost
10	\$2.50
20	\$4.00
30	\$6.00
40	\$7.50

The Dotted Grocer

B

Number of Apples	Total Cost
10	\$2.00
20	\$4.00
30	\$6.00
40	\$8.00

Web Grocer

D

Number of Apples	Total Cost
10	\$2.50
20	\$5.00
30	\$7.50
40	\$9.50

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